10/035,368
Search Lykook
1/28/08

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(FILE 'HOME' ENTERED AT 14:46:38 ON 28 JAN 2008)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 14:46:55 ON 28 JAN 2008

L1	68749	S (TWO DIMENSIONAL) AND ELECTROPHORESIS
L2	10764	S L1 AND ANTIBOD?
L3	259	S L2 AND ARRAY?
L4	71	S L3 AND PD<1999
L5	35	DUPLICATE REMOVE L4 (36 DUPLICATES REMOVED)
L6	246	S (ANTIBOD? ELECTROPHORESIS)
L7	202	DUPLICATE REMOVE L6 (44 DUPLICATES REMOVED)
L8	197	S L7 AND PD<1999
L9	2	S L8 AND ARRAY
L10	845	S (ANTIBOD? ARRAY)
L11	0	S L10 AND L8
L12	10	S L8 AND (TWO DIMENSIONAL?)
L13	9	S L12 NOT L9

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     (FILE 'HOME' ENTERED AT 14:46:38 ON 28 JAN 2008)

     FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 14:46:55 ON 28
     JAN 2008
L1         68749 S (TWO DIMENSIONAL) AND ELECTROPHORESIS
L2         10764 S L1 AND ANTIBOD?
L3           259 S L2 AND ARRAY?
L4            71 S L3 AND PD<1999
L5            35 DUPLICATE REMOVE L4 (36 DUPLICATES REMOVED)
L6           246 S (ANTIBOD? ELECTROPHORESIS)
L7           202 DUPLICATE REMOVE L6 (44 DUPLICATES REMOVED)
L8           197 S L7 AND PD<1999
L9             2 S L8 AND ARRAY
L10          845 S (ANTIBOD? ARRAY)
L11            0 S L10 AND L8
L12           10 S L8 AND (TWO DIMENSIONAL?)
L13            9 S L12 NOT L9

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ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1959:124490 CAPLUS
DN 53:124490
OREF 53:22425f-h
ED Entered STN: 22 Apr 2001
TI Immunoelectrophoretic two-dimensional analysis in a jellified medium
AU Blanc, Bernard
CS Inst. Pasteur, Paris
SO Bulletin de la Societe de Chimie Biologique (1959), 41, 891-9
CODEN: BSCIA3; ISSN: 0037-9042
DT Journal
LA Unavailable
CC 11G (Biological Chemistry: Pathology)
AB The technique of 2-dimensional immunoelectrophoresis described (two consecutive electrophoreses at right angles followed by diffusion of specific antibodies in a gelated medium) makes possible a better separation of antigen-antibody precipitation arcs, and thus an easier differentiation of the corresponding constituents. The improvement observed is mainly due to: (A) an addnl. elongation of the compds. already separated by the first electrophoresis; (B) a variable inclination of antibody trails tending to spread out arcs which are normally concentric. This method, applied to the study of normal human serum, has led to better differentiations in the zones of α2-, β2-, and γ-globulins. Moreover, it offers the advantage of allowing combinations of several other interesting techniques and making possible a change of conditions between the first and the second electrophoresis. It, thus, becomes a method of interest in the study of complex protein mixts., such as different biol. fluids.
IT Brain
(antiserum to, effect on antibody formation)
IT Blood serum
(antiserums, to brain, effect on antibody formation)
IT Antibodies
(electrophoresis (immuno-) of)
IT Proteins
(electrophoresis of)
IT Antigens
(immunoelectrophoresis of)

ANSWER 8 OF 9 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1959:124490 CAPLUS
DN 53:124490
OREF 53:22425f-h
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TI Immunoelectrophoretic two-dimensional analysis in a jellified medium
AU Blanc, Bernard
CS Inst. Pasteur, Paris
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CODEN: BSCIA3; ISSN: 0037-9042
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LA Unavailable
CC 11G (Biological Chemistry: Pathology)
AB The technique of 2-dimensional immunoelectrophoresis described (two consecutive electrophoreses at right angles followed by diffusion of specific antibodies in a gelated medium) makes possible a better separation of antigen-antibody precipitation arcs, and thus an easier differentiation of the corresponding constituents. The improvement observed is mainly due to: (A) an addnl. elongation of the compds. already separated by the first electrophoresis; (B) a variable inclination of antibody trails tending to spread out arcs which are normally concentric. This method, applied to the study of normal human serum, has led to better differentiations in the zones of α2-, β2-, and γ-globulins. Moreover, it offers the advantage of allowing combinations of several other interesting techniques and making possible a change of conditions between the first and the second electrophoresis. It, thus, becomes a method of interest in the study of complex protein mixts., such as different biol. fluids.
IT Brain
(antiserum to, effect on antibody formation)
IT Blood serum
(antiserums, to brain, effect on antibody formation)
IT Antibodies
(electrophoresis (immuno-) of)
IT Proteins
(electrophoresis of)
IT Antigens
(immunoelectrophoresis of)

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LCook 1/28/08
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(FILE 'HOME' ENTERED AT 12:28:44 ON 28 JAN 2008)

FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 12:29:07 ON 28 JAN 2008

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L1            72 S DIGE AND ANTIBOD?
L2            33 DUPLICATE REMOVE L1 (39 DUPLICATES REMOVED)
L3             0 S L2 AND PD<1999
L4         95971 S ELECTROPHORESIS AND ANTIBOD?
L5         25717 S L4 AND CY?
L6          4402 S L5 AND EXTRACT?
L7           496 S L4 AND MICROARRAY
L8             4 S L7 AND PD<1999
L9             2 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)
L10         3330 S L6 AND PD<1999
L11         2000 DUPLICATE REMOVE L10 (1330 DUPLICATES REMOVED)
L12         2000 S L11 NOT L7
L13         2000 DUPLICATE REMOVE L12 (0 DUPLICATES REMOVED)
L14           18 S L13 AND ARRAY?
L15       157018 S MICROARRAY
L16         1416 S (2D ELECTROPHORE?)
L17           36 S L15 AND L16
L18           29 DUPLICATE REMOVE L17 (7 DUPLICATES REMOVED)
L19            0 S L18 AND PD<1999

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ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN DUPLICATE 1
AN 1998:582799 CAPLUS
DN 129:287397
ED Entered STN: 14 Sep 1998
TI Ligand assays: from electrophoresis to miniaturized microarrays
AU Ekins, Roger P.
CS Division of Molecular Endocrinology, University College London Medical School, London, W1N 8AA, UK
SO Clinical Chemistry (Washington, D. C.) (1998), 44(9), 2015-2030
CODEN: CLCHAU; ISSN: 0009-9147
PB American Association for Clinical Chemistry
DT Journal; General Review
LA English
CC 9-0 (Biochemical Methods)
AB A review with 44 refs. The main developments in the "ligand assay" field in which I have been involved are traced. These include the original development of "first generation" competitive assays relying on radiolabeled analyte markers; the development of the first "second generation", noncompetitive (ultrasensitive) methods, which rely on the use of labeled (monoclonal) antibodies and high specific activity nonisotopic labels (leading to the transformation of the immunodiagnostic field in the 1980s); and the development of the first "third generation" miniaturized, chip-based, microarray methods, which permit the simultaneous ultrasensitive measurement of many analytes in the same small sample. The latter-applicable both to immunoassay and to DNA/RNA anal.-are likely to revolutionize the diagnostic and pharmaceutical fields in the next decade.
ST review ligand assay electrophoresis miniaturized microarray
IT Electrophoresis
(ligand assays: from electrophoresis to miniaturized microarrays)
IT Ligands
RL: ANT (Analyte); ANST (Analytical study)
(ligand assays: from electrophoresis to miniaturized microarrays)
RE.CNT 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD
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(31) Pardue, H; Clin Chem 1998, V44, P1776 CAPLUS
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(44) Yorde, D; Clin Chem 1976, V22, P1372 CAPLUS

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L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
AN 1998:485229 CAPLUS
DN 129:106256
ED Entered STN: 04 Aug 1998
TI Multiplexed molecular analysis apparatus and method
IN Eggers, Mitchell D.; Balch, William J.; Hogan, Michael E.; Mendoza, Leopoldo G.
PA Genometrix Inc., USA
SO PCT Int. Appl., 110 pp.
CODEN: PIXXD2
DT Patent
LA English
IC ICM G01N025-20
ICS G01N027-30; G01N021-29; G01N021-01; G01N021-64; G01N033-53; G01N033-566; G01N033-543; C12Q001-68; C12P019-34; C12M001-24
CC 9-1 (Biochemical Methods)
Section cross-reference(s): 1, 3, 15
FAN.CNT 1

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PI	WO 9829736	A1	19980709	WO 1997-US24098	19971231 <--
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	CA 2276462	C	20070612		
	CA 2389358	A1	19980709	CA 1997-2389358	19971231 <--
	AU 9866463	A	19980731	AU 1998-66463	19971231 <--
	EP 990142	A1	20000405	EP 1997-954992	19971231
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	US 6083763	A	20000704	US 1997-2170	19971231
	JP 2001510339	T	20010731	JP 1998-530285	19971231
	EP 1249705	A2	20021016	EP 2002-13128	19971231
	EP 1249705	A3	20031105		
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	JP 2003107097	A	20030409	JP 2002-179235	19971231
	US 6331441	B1	20011218	US 1998-217154	19981221
	US 6312960	B1	20011106	US 1998-218979	19981222
	US 6803238	B1	20041012	US 1998-220536	19981224
	US 6479301	B1	20021112	US 2000-679427	20001002
	US 2004023249	A1	20040205	US 2002-316077	20021211
PRAI	US 1996-34627P	P	19961231		
	CA 1997-2276462	A3	19971231		
	EP 1997-954992	A3	19971231		
	JP 1998-530285	A3	19971231		
	US 1997-2170	A3	19971231		
	WO 1997-US24098	W	19971231		
	US 1998-217154	A3	19981221		
	US 1998-218979	A1	19981222		
	US 2000-625086	B1	20000725		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
WO 9829736	ICM	G01N025-20
	ICS	G01N027-30; G01N021-29; G01N021-01; G01N021-64;

		G01N033-53; G01N033-566; G01N033-543; C12Q001-68; C12P019-34; C12M001-24
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	IPCR	B01J0019-00 [I,A]; B01J0019-00 [I,C*]; B01L0003-00 [I,A]; B01L0003-00 [I,C*]; B01L0003-02 [I,A]; B01L0003-02 [I,C*]; G01N0033-543 [I,A]; G01N0033-543 [I,C*]; G01N0035-00 [N,A]; G01N0035-00 [N,C*]; G01N0035-02 [I,A]; G01N0035-02 [I,C*]; G01N0035-10 [I,A]; G01N0035-10 [I,C*]
	NCL	436/518.000; 422/062.000; 422/063.000; 422/067.000; 422/068.100; 422/081.000; 422/105.000; 422/112.000; 435/006.000; 435/286.100; 435/286.500; 435/286.600; 436/043.000; 436/050.000; 436/524.000; 436/525.000; 436/527.000; 436/531.000

	ECLA	B01J019/00C; B01L003/00C2D; B01L003/02D; G01N033/543K; G01N035/02P; G01N035/10M5
JP 2001510339	IPCI	C12N0015-09 [ICM,7]; C12M0001-00 [ICS,7]; C12Q0001-68 [ICS,7]; G01N0027-416 [ICS,7]; G01N0033-53 [ICS,7]; G01N0033-543 [ICS,7]; G01N0033-566 [ICS,7]
	IPCR	C12N0015-09 [I,C*]; B01J0019-00 [I,C*]; B01J0019-00 [I,A]; B01L0003-00 [I,C*]; B01L0003-00 [I,A]; B01L0003-02 [I,C*]; B01L0003-02 [I,A]; C12M0001-00 [I,C*]; C12M0001-00 [I,A]; C12N0015-09 [I,A]; C12P0019-00 [I,C*]; C12P0019-34 [I,A]; C12Q0001-68 [I,C*]; C12Q0001-68 [I,A]; G01N0021-01 [I,C*]; G01N0021-01 [I,A]; G01N0021-25 [I,C*]; G01N0021-29 [I,A]; G01N0021-64 [I,C*]; G01N0021-64 [I,A]; G01N0025-20 [I,C*]; G01N0025-20 [I,A]; G01N0027-30 [I,C*]; G01N0027-30 [I,A]; G01N0027-416 [I,C*]; G01N0027-416 [I,A]; G01N0033-53 [I,C*]; G01N0033-53 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0033-566 [I,C*]; G01N0033-566 [I,A]; G01N0035-00 [N,C*]; G01N0035-00 [N,A]; G01N0035-02 [I,C*]; G01N0035-02 [I,A]; G01N0035-04 [I,C*]; G01N0035-04 [I,A]; G01N0035-10 [I,C*]; G01N0035-10 [I,A]
	ECLA	B01J019/00C; B01L003/00C2D; B01L003/02D; B01L003/02D6; B01L003/02D10; G01N033/543K; G01N035/02P; G01N035/10M5
EP 1249705	IPCI	G01N0035-10 [ICM,6]; B01J0019-00 [ICS,6]; B01L0003-02 [ICS,6]
	ECLA	B01J019/00C; B01L003/00C2D; B01L003/02D; G01N033/543K; G01N035/02P; G01N035/10M5; B01L003/02D6
JP 2003107097	IPCI	G01N0035-04 [ICM,7]; C12M0001-00 [ICS,7]; C12N0015-09 [ICS,7]; G01N0033-53 [ICS,7]; G01N0033-566 [ICS,7]; G01N0035-02 [ICS,7]; G01N0035-10 [ICS,7]
US 6331441	IPCI	G01N0033-543 [ICM,7]
	IPCR	B01J0019-00 [I,C*]; B01J0019-00 [I,A]; B01L0003-00 [I,C*]; B01L0003-00 [I,A]; B01L0003-02 [I,C*]; B01L0003-02 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0035-00 [N,C*]; G01N0035-00 [N,A]; G01N0035-02 [I,C*]; G01N0035-02 [I,A]; G01N0035-10 [I,C*]; G01N0035-10 [I,A]
	NCL	436/518.000; 422/055.000; 422/058.000; 435/006.000; 435/007.100; 435/287.100; 435/287.200; 435/288.400; 435/288.700; 435/808.000; 436/501.000; 436/809.000
	ECLA	B01J019/00C; B01L003/00C2D; B01L003/02D; B01L003/02D6; G01N033/543K; G01N035/02P; G01N035/10M5
US 6312960	IPCI	G01N0033-543 [ICM,7]
	IPCR	B01J0019-00 [I,C*]; B01J0019-00 [I,A]; B01L0003-00 [I,C*]; B01L0003-00 [I,A]; B01L0003-02 [I,C*]; B01L0003-02 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0035-00 [N,C*]; G01N0035-00 [N,A]; G01N0035-02 [I,C*]; G01N0035-02 [I,A]; G01N0035-10 [I,C*]; G01N0035-10 [I,A]
	NCL	436/518.000; 422/062.000; 422/063.000; 422/067.000; 422/068.100; 422/081.000; 422/105.000; 422/112.000; 435/006.000; 435/286.100; 435/286.500; 435/286.600; 436/043.000; 436/050.000; 436/524.000; 436/525.000; 436/527.000; 436/531.000
	ECLA	B01J019/00C; B01L003/00C2D; B01L003/02D; B01L003/02D6; G01N033/543K; G01N035/02P; G01N035/10M5
US 6803238	IPCI	G01N0033-543 [ICM,7]
	IPCR	B01J0019-00 [I,C*]; B01J0019-00 [I,A]; B01L0003-00 [I,C*]; B01L0003-00 [I,A]; B01L0003-02 [I,C*]; B01L0003-02 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0035-00 [N,C*]; G01N0035-00 [N,A]; G01N0035-02 [I,C*]; G01N0035-02 [I,A]; G01N0035-10 [I,C*]; G01N0035-10 [I,A]
	NCL	436/518.000; 435/004.000; 435/006.000; 435/174.000;

		435/287.100; 436/164.000; 436/172.000; 436/510.000; 436/800.000; 436/804.000; 436/805.000
	ECLA	B01J019/00C; B01L003/00C2D; B01L003/02D; B01L003/02D6; G01N033/543K; G01N035/02P; G01N035/10M5
US 6479301	IPCI	G01N0033-543 [ICM,7]
	IPCR	B01J0019-00 [I,C*]; B01J0019-00 [I,A]; B01L0003-00 [I,C*]; B01L0003-00 [I,A]; B01L0003-02 [I,C*]; B01L0003-02 [I,A]; G01N0033-543 [I,C*]; G01N0033-543 [I,A]; G01N0035-00 [N,C*]; G01N0035-00 [N,A]; G01N0035-02 [I,C*]; G01N0035-02 [I,A]; G01N0035-10 [I,C*]; G01N0035-10 [I,A]
	NCL	436/518.000; 422/062.000; 422/063.000; 422/065.000; 422/067.000; 422/068.100; 422/081.000; 422/105.000; 422/112.000; 435/006.000; 435/286.100; 435/286.500; 435/286.600; 436/043.000; 436/050.000; 436/524.000; 436/525.000; 436/527.000; 436/531.000
	ECLA	B01J019/00C; B01L003/00C2D; B01L003/02D; B01L003/02D10; G01N033/543K; G01N035/02P; G01N035/10M5
US 2004023249	IPCI	C12Q0001-68 [ICM,7]; G01N0033-53 [ICS,7]; C12M0001-34 [ICS,7]
	IPCR	B01J0019-00 [I,C*]; B01J0019-00 [I,A]; G01N0035-00 [N,C*]; G01N0035-00 [N,A]; G01N0035-10 [I,C*]; G01N0035-10 [I,A]
	NCL	435/006.000; 435/007.100; 435/287.200
	ECLA	B01J019/00C; G01N035/10M5

AB A method and apparatus are disclosed for analyzing mol. structures within a sample substance using an array having a plurality of test sites upon which the sample substance is applied. The invention is also directed to a method and apparatus for constructing mol. arrays having a plurality of test sites. The invention allows for definitive high throughput anal. of multiple analytes in complex mixts. of sample substances. A combinatorial anal. process is described that results in the creation of an array of integrated chemical devices. These devices operate in parallel, each unit providing specific sets of data that, when taken as a whole, give a complete answer for a defined experiment This approach is uniquely capable of rapidly providing a high d. of information from limited amts. of sample in a cost-effective manner. Clean glass microscope cover slides were surface derivatized with 3-aminopropyltrimethoxysilane. A Hamilton 2200 Microlab robot was used to print a microarray of N-hydroxysuccinimide-activated haptens (digoxigenin, fluorescein, and biotin) on the glass substrate. To detect the immobilized haptens, the glass slides were rinsed and then incubated with streptavidin-horseradish peroxidase (HRP), anti-digoxigenin-HRP, and antifluorescein-HRP conjugates. The slides were imaged using chemiluminescent substrate (SuperSignal Substrate) and a proximal CCD detector.

ST multiplex microassay app probe printing; hapten array robotics printing CCD imaging; charge coupled device imaging multiplex microassay

IT Gene
RL: ANT (Analyte); ANST (Analytical study)
(anal. of; multiplexed mol. anal. apparatus and method)

IT Optical sensors
(arrays; multiplexed mol. anal. apparatus and method)

IT Polyimides, uses
RL: DEV (Device component use); USES (Uses)
(capillary tubes comprising fused silica coated with, in device for preparing reaction substrate for; multiplexed mol. anal. apparatus and method)

IT Glass, uses
Plastics, uses
Rubber, uses
RL: DEV (Device component use); USES (Uses)
(capillary tubes comprising, in device for preparing reaction substrate for; multiplexed mol. anal. apparatus and method)

IT Optical imaging sensors

Optical imaging sensors
Optical imaging sensors
(charge coupled electrooptical; multiplexed mol. anal. apparatus and method)

IT Electrooptical imaging devices
Electrooptical imaging devices
Electrooptical imaging devices
(charge coupled sensors; multiplexed mol. anal. apparatus and method)

IT Antibodies
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(conjugates, with horseradish peroxidase; multiplexed mol. anal. apparatus and method)

IT Reagents
RL: ARG (Analytical reagent use); DEV (Device component use); PEP (Physical, engineering or chemical process); RCT (Reactant); ANST (Analytical study); PROC (Process); RACT (Reactant or reagent); USES (Uses)
(deposition of, on reaction substrate; multiplexed mol. anal. apparatus and method)

IT Phosphors
(electroluminescent, target analyte labeled with; multiplexed mol. anal. apparatus and method)

IT Charge coupled devices
Charge coupled devices
Charge coupled devices
(electrooptical imaging sensors; multiplexed mol. anal. apparatus and method)

IT Apparatus
Printing apparatus
(for preparing reaction substrate for; multiplexed mol. anal. apparatus and method)

IT Peptides, analysis
Proteins, specific or class
RL: ANT (Analyte); ARG (Analytical reagent use); DEV (Device component use); ANST (Analytical study); USES (Uses)
(hapten-binding; multiplexed mol. anal. apparatus and method)

IT Electrophoresis

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     (FILE 'HOME' ENTERED AT 12:28:44 ON 28 JAN 2008)

     FILE 'BIOSIS, CAPLUS, EMBASE, MEDLINE, JAPIO' ENTERED AT 12:29:07 ON 28
     JAN 2008
L1            72 S DIGE AND ANTIBOD?
L2            33 DUPLICATE REMOVE L1 (39 DUPLICATES REMOVED)
L3             0 S L2 AND PD<1999
L4         95971 S ELECTROPHORESIS AND ANTIBOD?
L5         25717 S L4 AND CY?
L6          4402 S L5 AND EXTRACT?
L7           496 S L4 AND MICROARRAY
L8             4 S L7 AND PD<1999
L9             2 DUPLICATE REMOVE L8 (2 DUPLICATES REMOVED)

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